TABER® INDUSTRIES *Engineered for Quality and Reliability*

AS9100 • ISO9001 Genuine TABER™ CERTIFIED

SUBMERSIBLE PRESSURE TRANSDUCER

2000 / 2002 Series

Taber's 2000 / 2002 Submersible Series pressure transducer provides rugged and reliable performance for harsh subsea vehicles, oil and mining applications. A fully welded 17-4 PH stainless steel pressure media cavity allows for measurements up to 10,000 PSI (22,400 feet of sea water). The bonded foil strain gage diaphragm design provides stable signal fidelity with low hysteresis and non-repeatability errors.

- Voltage (VDC) or Current (mA) output signal
- Does not require regulated power supply
- 15,000 PSI maximum external case pressure
- Compatible with seawater
- Uses SEA CON® underwater Dry-Mate style receptacles
- 2000 Series output short circuit protected

AT TABER, WE CONSISTENTLY OUTPERFORM THE INDUSTRY STANDARDS TO GIVE YOU WHAT YOU REALLY NEED–PRESSURE TRANSDUCERS SPECIFICALLY ENGINEERED FOR THE MOST EXTREME ENVIRONMENTS.

Last Revision 10/2021

716.694.4000 **TOLL FREE** *800.333.5300*
TaberTransducer.com

MADE IN USA

455 Bryant Street,
North Tonawanda, NY 14120

The Taber Standard

Our bonded foil strain gage pressure transducers are manufactured to the highest standard of quality and engineered to meet your custom specifications.

2000 / 2002 SERIES
PERFORMANCE SPECIFICATIONS

	2000 Series	2002 Series
Output Signal	0-5 VDC	4-20 mA
Full Scale Output (FSO)	5 VDC	16 mA
Static Error Band	±0.2% FSO using Best Fit Straight Line (BFSL) and Root Sum Squared (RSS) Method	
Total Error Band	±1.0% FSO over entire Compensated Temperature Range (CTR)	
Maximum Expected Operating Pressure (MEOP)*	0 through 10,000 PSI 0 through 689 BAR	
Proof Pressure	3 times MEOP up to 1,000 PSI 2 times MEOP over 1,000 PSI	
Minimum Burst Pressure	4.5 times MEOP	
Maximum External Case Pressure	15,000 PSI / 1,034 Bar	

OPTIONS

- *Improved Static Error Band and Total Error Band***
- *Increased Proof and Burst Pressures*

*Contact Taber for discrete pressure ranges.
**Dependent upon parameters such as pressure, temperature, and various hardware elements.

2000 / 2002 SERIES
ENVIRONMENTAL SPECIFICATIONS

Compensated Temperature Range (CTR) *Temperature range in which the transducer will operate within the total error band.*	-40° C to +121° C (-40° F to +250° F)
Operating Temperature *Temperature range in which the transducer will operate without degradation of performance once it returns to the CTR.*	-54° C to +93° C (-65° F to +200° F)

OPTIONS

- *Alternative compensated temperature range (CTR) requirements*

2000 / 2002 SERIES
ELECTRICAL SPECIFICATIONS

	0-5 VDC	4-20 mA
Strain Gage Type	Resistive Bonded Foil	
Insulation Resistance	> 10 Gohm @ 50 VDC	
Electrical Receptacle	SEA CON® XSJ-5BCR	SEA CON® VSG-2BCL
Mating Connector	SEA CON® XSJ-5CCP	SEA CON® VMG-2FS
Cable	2' length	2' length plus G-FLS-X locking sleeve
Excitation Voltage	20-36 VDC (28 VDC nominal)	8-36 VDC (24 VDC nominal)

OPTIONS

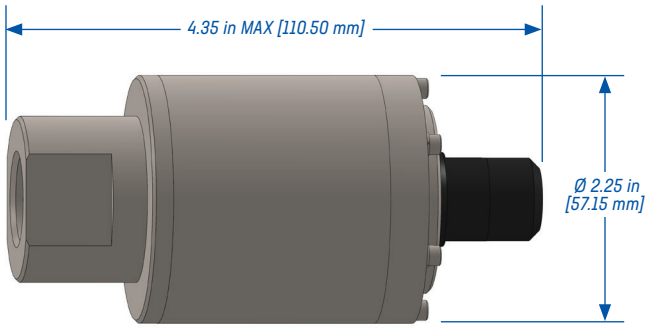
- *Custom cable lengths*

2000 / 2002 SERIES
MECHANICAL SPECIFICATIONS

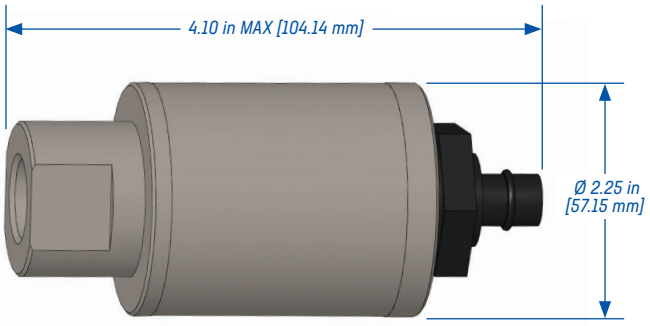
	2000 Series	2002 Series
Diaphragm Material	17-4 PH stainless	
Weight	Typical 1.3 Kg	Typical 980 g
Case Material	17-4 PH stainless	
Pressure Port	1/2 NPT female	

OPTIONS

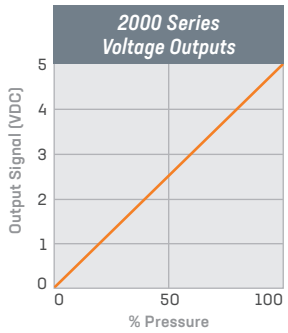
- *Variety of pressure ports*

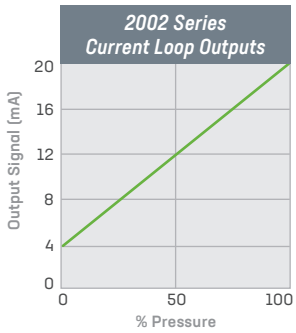


2000 SERIES REFERENCE DIMENSIONS



2002 SERIES REFERENCE DIMENSIONS





OPTIONAL FEATURES

- Platinum RTD outputs: 100 Ohm, 1000 Ohm & 2000 Ohm.
- Internal or external shunt value at various percentages FSO at +21° C (+70° F).
- Reference prints available for download upon request.

If your pressure transducer requires a unique electrical connector, material, pressure range, temperature compensation, calibration, accuracy, cable length, or any other special requirement, please ***contact a Taber Sales Engineer at 1-800-333-5300 or email sales@tabertransducer.com.***